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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/697,712 10/30		10/30/2003	Manabu Sawasaki	1324.68598	8365		
24978	7590	05/13/2005		EXAM	EXAMINER		
GREER, B	URNS &	CRAIN	TON, MINI	TON, MINH TOAN T			
300 S WAC				ART UNIT	PAPER NUMBER		
25TH FLOO			ARTONII	FAFER NUMBER			
CHICAGO,	IL 6060	06	2871				
				DATE MAILED: 05/13/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	ı No.	Applicant(s)	<i>)</i>			
		10/697,712		SAWASAKI, MANABU				
	Office Action Summary	Examiner		Art Unit				
		Toan Ton		2871				
Period fo	The MAILING DATE of this communication app or Reply	pears on the	cover sneet with the	correspondence address				
THE in the second of the secon	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. In sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no even ly within the statut will apply and will e, cause the applic	t, however, may a reply be to ory minimum of thirty (30) do expire SIX (6) MONTHS fro ation to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication IED (35 U.S.C. § 133).	1.			
Status								
1)⊠	Responsive to communication(s) filed on <u>02/2</u>	<u>4/05</u> .			•			
2a)⊠	This action is FINAL . 2b) ☐ This	s action is no	n-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5)□	Claim(s) <u>1-9</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1-9</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or							
Applicat	ion Papers							
9)[The specification is objected to by the Examine		_					
10)	The drawing(s) filed on is/are: a) acc				*			
	Applicant may not request that any objection to the				47			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Extended to be the Extended to				<i>a j</i> .			
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	ts have beer ts have beer ority documen ou (PCT Rule	received. received in Applica nts have been recei 17.2(a)).	ation No ved in this National Stage				
Attachmen	nt(s)			·				
1) Notic	ce of References Cited (PTO-892)		4) Interview Summa					
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date)	Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date I Patent Application (PTO-152)				

Art Unit: 2871

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyazaki et al (US 6445437).

Miyazaki discloses a liquid crystal display device comprising (see at least Figures 19-20, 22-23): a pair of substrates provided opposite to each other; a liquid crystal sealed between the substrates; a light-shielding film 36 formed like a grid on one of the substrates; a plurality of pixel regions defined by the light-shielding film; and a pillar spacer 33 provided such that a region having an alignment defect of the liquid crystal is formed across adjoining ones of the pixel regions when viewed in a direction perpendicular to the surface of the substrate.

Miyazaki discloses wherein the pillar spacer provided such that parts of the region having an alignment defect formed respectively in the adjoining pixel regions are substantially equal to each other in surface area.

Miyazaki discloses the pillar spacer formed on the light-shielding film and provided such that it protrudes from the light-shielding film into the adjoining pixel regions when viewed in the direction perpendicular to the surface of the substrate.

Miyazaki discloses color filter layers in a plurality of colors (RBG) formed in the pixel regions and the pillar spacer provided such that it protrudes into the adjoining pixel regions in which the color filter layers are formed in different colors.

Art Unit: 2871

Miyazaki discloses the device employing a thin film transistor formed in each of the pixel regions.

Miyazaki discloses an alignment film formed on the pillar spacer and rubbed in a predetermined rubbing direction, wherein the pillar spacer is provided in a position that is biased in the direction opposite to the rubbing direction from the intersection of the light-shielding film.

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Response to Arguments

4. Applicant's arguments filed 02/24/05 have been fully considered but they are not persuasive.

Art Unit: 2871

Applicant's arguments are as follows:

(1) Miyazaki fails to disclose a light shielding film formed like a grid on one of the

substrates.

(2) Miyazaki fails to disclose a pillar spacer formed in the light shielding area, but not

Page 4

provided such a region having an alignment defect of the liquid crystal formed across ones of the

pixel regions, when viewed in a direction perpendicular to the surface of one of the substrates.

Examiner's responses to Applicant's arguments are as follows:

(1) Miyazaki discloses a liquid crystal display device comprising a light shielding film 36

formed a grid on one of the substrates (see at least Figures 19-20)

(2) Miyazaki discloses a pillar spacer formed in the light shielding area and provided such a

region (the claims does not recite all regions) having an alignment defect of the liquid crystal

formed across ones of the pixel regions, when viewed in a direction perpendicular to the surface

of one of the substrates.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

Art Unit: 2871

Information regarding the status of an application may be obtained from the Patent

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

Application Information Retrieval (PAIR) system. Status information for published applications

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 9, 2005

TOANTON PRIMARY EXAMINER

Page 5